

HW ANSWERS:

35) (a) Individuals = 100 senators

Variables = gender and political preference

(b) $P(D) = 51/100$

$P(F) = 16/100$

$P(F \cap D) = 11/100$

$P(F \cup D) = 56/100$

36) (a) Individuals = students in the school

Variables = gender and whether they eat
breakfast

(b) $P(F) = 275/595$

$P(E) = 300/595$

$P(F \cap E) = 110/595$

$P(F \cup E) = 465/595$

p. 390

29) In 1959: $26 * 26 * 26 * 10 * 10 * 10 = 17,576,000$

In 1999: 45,697,600